

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Terence S. Dowling and R. David Arnold Art Unit : Unknown
 Examiner : Unknown
 Serial No. : 09/739,587
 Filed : December 15, 2000
 Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

BOX MISSING PARTS

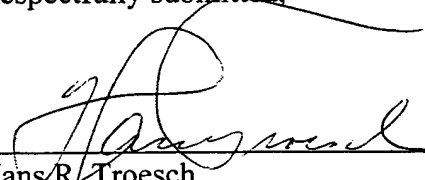
Commissioner for Patents
 Washington, D.C. 20231

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

In response to the Notice to File Missing Parts mailed March 5, 2001 (copy enclosed), applicant as a large entity submits herewith the following: Copy of Transmittal Letter mailed to the PTO on February 16, 2001, including the executed Declaration/Power of Attorney, Assignment and fees. No additional papers or filing fees are required. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 2 May 01


 Hans R. Troesch
 Reg. No. 36,950

Fish & Richardson P.C.
 2200 Sand Hill Road, Suite 100
 Menlo Park, CA 94025
 Telephone: (650) 322-5070
 Facsimile: (650) 854-0875

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

May 2, 2001
 Date of Deposit
Bridget Conger
 Signature
BRIDGET CONGAR
 Typed or Printed Name of Person Signing Certificate



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/739,587	12/15/2000	Terence S. Dowling	07844-476001

CONFIRMATION NO. 3536

021876
FISH & RICHARDSON
ROGER S BOROVVOY
SUITE 100
2200 SAND HILL ROAD
MENLO PARK, CA 94025

FORMALITIES LETTER



OC000000005824484

Date Mailed: 03/05/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.

A copy of this notice MUST be returned with the reply.


Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : T.S. Dowling and R.D. Arnold Art Unit : Unknown
 Serial No. : 09/739,587 Examiner : Unknown
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 Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

Commissioner for Patents
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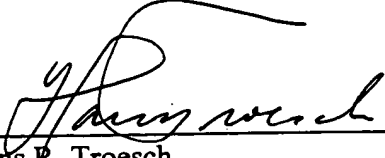
TRANSMITTAL LETTER

Correspondence relating to this application is enclosed: Executed Combined Declaration and Power of Attorney; executed Assignment, PTO Form-1595 Cover Sheet; and a check for \$1336 (\$1166 filing fee, computed below; \$130 surcharge for late filing; \$40 assignment fee). Please apply any charges not covered, or any credits, to Deposit Account No. 06-1050. A Notice to File Missing Parts has not yet been received.

Filing Fee						\$ 710
Total Claims	32	-	20	=	12	\$ 216
Independent	6	-	3	=	3	<u>\$ 240</u>
Total Filing Fee Due						\$1166

Respectfully submitted,

Date: 16 Feb 01

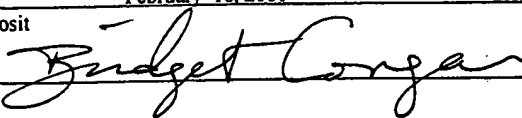

 Hans R. Troesch
 Reg. No. 36,950

Fish & Richardson P.C.
 2200 Sand Hill Road, Suite 100
 Menlo Park, CA 94025
 Telephone: (650) 322-5070
 Facsimile: (650) 854-0875

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

February 16, 2001
 Date of Deposit
 Signature 
 Bridget Cougar
 Typed or Printed Name of Person Signing Certificate

COPY

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

the specification of which:

☐ is attached hereto.

☒ was filed on December 15, 2000.

☐ under Application No. _____.

☒ with Express Mail No. EL 572 620 515 US (Application Number not yet known).

☐ was described and claimed in PCT International Application No. _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, code of Federal Regulations, Section 1.56(a).

I hereby appoint all registered practitioners associated with **Customer Number 021876** to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to:

Customer Number 021876

Direct all telephone calls to Hans R. Troesch, Reg. No. 36,950, at telephone number (650) 322-5070.

☒ For Assigned Inventions: I understand that the purpose of making this appointment is to permit prosecution of patent applications for the above-identified invention for the benefit of my assignee, and that this appointment does not create an attorney-client relationship between me and these appointees.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor: Terence S. Dowling

Inventor's signature

Residence:

Citizen of:

Post Office Address:

San Jose, California

USA

5965 Foligno Way, San Jose, CA 95138-2226

Date:

2/9/2001

Full name of inventor: R. David Arnold

Inventor's signature

Residence:

Citizen of:

Post Office Address:

Mountain View, California

USA

1228 Isabelle Avenue, Mountain View, CA 94040

Date:

COPY

COMBINED DECLARATION AND POWER OF ATTORNEY
Attorney Docket No. 07844-476001
Client No. P440

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

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Full name of inventor: Terence S. Dowling

Inventor's signature

Residence:

Citizen of:

Post Office Address:

San Jose, California

USA

5965 Foligno Way, San Jose, CA 95138-2226

Date: _____

Full name of inventor:

R. David Arnold

Inventor's signature

Residence:

Citizen of:

Post Office Address:

Mountain View, California

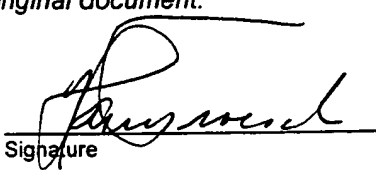
USA

1228 Isabelle Avenue, Mountain View, CA 94040

Date: 1/5/01

RECORDATION FORM COVER SHEET PATENTS ONLY

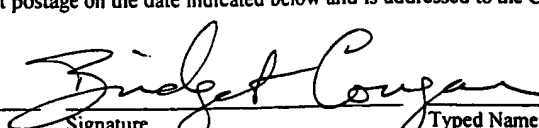
Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): Terence S. Dowling and R. David Arnold Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): ADOBE SYSTEMS INCORPORATED 345 Park Avenue San Jose, CA 95110 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 1/19/01; 1/5/01			
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/739,587 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name/address of party to whom correspondence concerning document should be mailed: ROGER S. BOROVY Fish & Richardson P.C. 2200 Sand Hill Road, Suite 100 Menlo Park, CA 94025		6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
DO NOT USE THIS SPACE			
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Hans R. Troesch Reg. No. 36,950 Name of Person Signing  Signature 16 Feb 01 Date			
Total number of pages including coversheet, attachments and document: 4			

50038551.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

February 16, 2001
Date of Deposit

Signature
Bridget Cougar
Typed Name of Person Signing Certificate

COPY

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS, Terence S. Dowling and R. David Arnold, hereby sell, assign, and transfer to Adobe Systems Incorporated, a Delaware Corporation, having offices located at 345 Park Avenue, San Jose, California 95110-2704, and its successors, assigns and legal representatives (collectively, "ASSIGNEE") all of the right, title and interest of ASSIGNORS throughout the world in and to any and all inventions and improvements which are the subject of a patent document entitled

HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

and which is found in

- (a) U.S. patent application executed on , entitled as above, listing the above named person as inventor.
- (b) X U.S. patent application filed on December 15, 2000
[] under Application No. .
[X] with Express Mail No. EL 572 620 515 US (Application Number not yet known).
- (c) U.S. Patent No.: , issued .

An attorney of record, or the attorney filing the application, is authorized and requested by the execution of this assignment to insert into this assignment the execution date of the application and/or the filing date and serial number of the application when officially known.

This assignment includes the foregoing patent application or patent; all legal equivalents thereof in any foreign country and all patents issuing therefrom; all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNORS authorize ASSIGNEE to apply in all countries in the names of ASSIGNORS or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

ASSIGNORS further covenant for themselves and their respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to said invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and to testify as to the same in any interference, litigation, or proceeding relating thereto and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

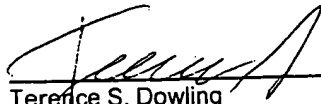
ASSIGNORS requests the Commissioner of Patents and Trademarks to issue said patents of the United States and any reissue or extension thereof to the ASSIGNEE.

COPY

Executed this

Signature of Inventor

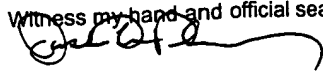
19 day of January 2001
~~2000~~


Terence S. Dowling

STATE OF California)
County of Santa Clara) ss.

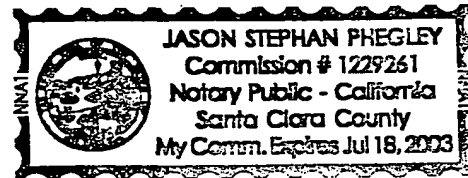
On Jan. 19, 2001, before me, Jason Stephan Phegley, a Notary Public for the State of California, personally appeared Terence S. Dowling, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal



Executed this

Signature of Inventor



____ day of _____, 2000

R. David Arnold

STATE OF _____)
County of _____) ss.

On _____, before me, _____, a Notary Public for the State of _____, personally appeared R. David Arnold, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

COPY

Executed this

Signature of Inventor

____ day of _____, 2000

Terence S. Dowling

STATE OF _____ }
County of _____ } ss.

On _____, before me, _____, a Notary Public for the State of _____, personally appeared Terence S. Dowling, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

Executed this

Signature of Inventor

5 day of JAN., 2000 ¹ RDA

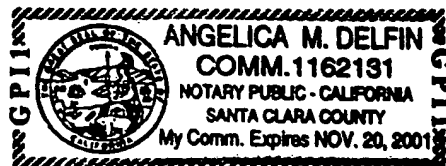
R. David Arnold

STATE OF California }
County of Santa Clara } ss.

On 1/5/01, before me, Angelica Delfin, a Notary Public for the State of California, personally appeared R. David Arnold, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

Angelica M. Delfin
50025931.doc



COPY

 FISH & RICHARDSON P.C.

225 Franklin Street
Boston, Massachusetts
02110-2804

C 120343


PAY one thousand three hundred thirty-248 DOLLARS

TO THE ORDER OF		DATE	AMOUNT
COMMISSIONER OF PATENTS AND TRADEMARKS		2/16/01	1336.00

FISH & RICHARDSON P.C.

By Charles C. Richardson

07844-476001

 BankBoston
BankBoston Maine, N.A.
South Portland, ME

52-153/112

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No. ATTORNEY DOCKET NO.: 07844-476001

The Patent and Trademark Office date stamp sets forth the receipt date of:

Applicant or Patentee PixelNo. (Application, Appeal, Interference, Patent, Reexam) 09/739,587Filing or Issue Date 12/15/02Title: HINTED STEM PLACEMENT ON HIGH-RES. PIXEL☒ Transmittal Letter 1 Pages ☐ Petition for Extension of Time GRID☐ Amendment/Response Pages ☐ Status Inquiry☐ Maintenance Fee ☐ Request Certificate of Correction☒ Check \$ 1336 ☐ Notice of Appeal☐ Issue Fee ☐ Request patent copies ☐ Appeal Brief☐ ☐ Sheets Formal ☐ Sheets Informal

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Applicant or Patentee PixelNo. (Application, Appeal, Interference, Patent, Reexam) 09/739,587Filing or Issue Date 12/15/02Title: HINTED STEM PLACEMENT ON HIGH-RES. PIXEL☒ Transmittal Letter 1 Pages ☐ Petition for Extension of Time GRID☐ Amendment/Response Pages ☐ Status Inquiry☐ Maintenance Fee ☐ Request Certificate of Correction 01PE☒ Check \$ 1336 ☐ Notice of Appeal☐ Issue Fee ☐ Request patent copies ☐ Appeal Brief☐ Drawings ☐ Sheets Formal ☐ Sheets Informal☐ Response to Notice of Missing Parts ☐ Postcard☒ Combined Declaration and Power of Attorney Pages ☐ Signature Designated☐ Assignment 3 Pages ☐ Recordation Form Cover Sheet Pages☐ Small Entity Statement☐ Information Disclosure Statement Pages☐ PTO Form 1449 Pages ☐ Prior Art References - No. of References ☐ Other:

Atty./Secty.

Client/Matter

Initials HRT Name AdobeDate 2/16/01

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Applicant or Patentee T.S. Dowling and R.D. Arnold
No. (Application, Appeal, Interference, Patent, Reexam) 09/739,587
Filing or Issue Date 12/15/00
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Transmittal Letter _____ Pages ☐ Petition for Extension of Time PIXEL
Amendment/Response _____ Pages ☐ Status Inquiry GRID
☐ Request Certificate of Correction

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Title: HINTED STEM PLACEMENT ON HIGH-RESOLUTION
☒ Transmittal Letter _____ Pages ☐ Petition for Extension of Time PIXEL
☐ Amendment/Response _____ Pages ☐ Status Inquiry GRID
☐ Maintenance Fee ☐ Request patent copies ☐ Request Certificate of Correction
☐ Check \$ _____ ☐ Notice of Appeal
☐ Issue Fee ☐ Drawings _____ Sheets Formal _____ Sheets Informal ☐ Appeal Brief
☒ Response to Notice of Missing Parts ☐ Postcard
☐ Combined Declaration and Power of Attorney _____ Pages ☐ Signed _____ Unsigned
☐ Assignment _____ Pages ☐ Recordation Form Cover Sheet _____ Pages
☐ Small Entity Statement
☐ Information Disclosure Statement _____ Pages
☐ PTO Form 1449 _____ Pages ☐ Prior Art References - No. of References _____
Other: Transmittal Letter and Decl. Power
Atty./Secty. Assignment & Fees mailed to PTO on 2/16/01
Initials HR Client/Matter Name Adobe Date 5/2/01

CC-140-162
11/6/02

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MAY 17 2001

FISH & RICHARDSON
SILICON VALLEY OFFICE



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 11, 2001

PTAS

FISH & RICHARDSON P.C.
ROGER S. BOROVVOY
2200 SAND HILL ROAD, SUITE 100
MENLO PARK, CA 94025



101630921A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/21/2001

REEL/FRAME: 011555/0702
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
DOWLING, TERENCE S.

DOC DATE: 01/19/2001

ASSIGNOR:
ARNOLD, R. DAVID

DOC DATE: 01/05/2001

ASSIGNEE:
ADOBE SYSTEMS INCORPORATED
345 PARK AVENUE
SAN JOSE, CALIFORNIA 95110

SERIAL NUMBER: 09739587
PATENT NUMBER:

FILING DATE: 12/15/2000
ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

* No Docketing Required *
Reviewed By Practice Systems
Initials: <u>SPV</u>
Reviewed By Billing Secretary



03-09-2001


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101630921

2.21.01

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Terence S. Dowling and R. David Arnold Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): ADOBE SYSTEMS INCORPORATED 345 Park Avenue San Jose, CA 95110 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 1/19/01; 1/5/01	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/739,587 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: ROGER S. BOROVY Fish & Richardson P.C. 2200 Sand Hill Road, Suite 100 Menlo Park, CA 94025	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Hans R. Troesch Reg. No. 36,950 Name of Person Signing  Signature 16 Feb 01 Date	
Total number of pages including coversheet, attachments and document: 4	

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02/26/2001 SSANDARA 00000002 09739587

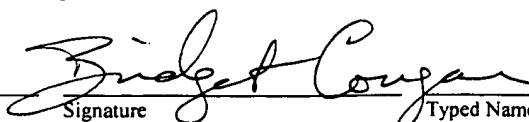
05 FD:581

40.00 BP

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Date of Deposit


Signature

Bridget Cougar
Typed Name of Person Signing Certificate

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS, Terence S. Dowling and R. David Arnold, hereby sell, assign, and transfer to Adobe Systems Incorporated, a Delaware Corporation, having offices located at 345 Park Avenue, San Jose, California 95110-2704, and its successors, assigns and legal representatives (collectively, "ASSIGNEE") all of the right, title and interest of ASSIGNORS throughout the world in and to any and all inventions and improvements which are the subject of a patent document entitled

HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

and which is found in

- (a) U.S. patent application executed on , entitled as above, listing the above named person as inventor.
- (b) X U.S. patent application filed on December 15, 2000
[] under Application No. .
[X] with Express Mail No. EL 572 620 515 US (Application Number not yet known).
- (c) U.S. Patent No.: , issued .

An attorney of record, or the attorney filing the application, is authorized and requested by the execution of this assignment to insert into this assignment the execution date of the application and/or the filing date and serial number of the application when officially known.

This assignment includes the foregoing patent application or patent; all legal equivalents thereof in any foreign country and all patents issuing therefrom; all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNORS authorize ASSIGNEE to apply in all countries in the names of ASSIGNORS or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

ASSIGNORS further covenant for themselves and their respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to said invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and to testify as to the same in any interference, litigation, or proceeding relating thereto and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNORS requests the Commissioner of Patents and Trademarks to issue said patents of the United States and any reissue or extension thereof to the ASSIGNEE.

Executed this

Signature of Inventor

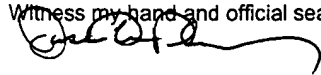
19 day of January 2001
~~2000~~


Terence S. Dowling

STATE OF California)
County of Santa Clara) ss.

On Jan. 19, 2001, before me, Jason Stephan Phegley, a Notary Public for the State of California, personally appeared Terence S. Dowling, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal



Executed this

Signature of Inventor



____ day of _____, 2000

R. David Arnold

STATE OF _____)
County of _____) ss.

On _____, before me, _____, a Notary Public for the State of _____, personally appeared R. David Arnold, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

Executed this

Signature of Inventor

____ day of _____, 2000

Terence S. Dowling

STATE OF _____)
County of _____) ss.

On _____, before me, _____, a Notary Public for the State of _____, personally appeared Terence S. Dowling, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

Executed this

Signature of Inventor

5 day of JAN., 2000 ^{1 RDA}

R. David Arnold

STATE OF California)
County of Santa Clara) ss.

On 1/5/01, before me, Angelica Delfin, a Notary Public for the State of California personally appeared R. David Arnold, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

Angelica M. Delfin

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